

Software Requirement Specification

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Online course platform
(E-Learning Website)

GitHub Link: -

<https://github.com/SaiVarun7009/eLearning.git>

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1) Purpose

The purpose of this document is to provide detailed explanation on E-Learning website and its requirements which helps the user to learn anything avoiding the time to search for the best material

2) Requirements

Performance requirements

1. **Response time:** The website should have very less time delay while loading the pages and it has quick response while gathering your cache.
2. **Security:** The website should have strong security on details of user and only user can access their own profile unless they have a username and password.
3. **Scalability:** The website should be able to handle too many users at the same time while logging-in, or accessing a link to attend an online class.

Functional requirements

- 1) **User Profile:** The website should provide a page to login as a student and instructor differently, which contain username, email, phone number, password, should be mandatory to both the student and instructor for student currently studying collage and year of pass out and for instructor currently working collage and year of experience.
- 2) **Search:** the website should contain a search bar which should be able to search and provide list of courses or bootcamps or etc in the suggestion box.
- 3) **Courses and Bootcamp:** The website should contain a separate page for courses and Bootcamp where all the courses available in this website should be displayed on course page and same for bootcamp.
- 4) **Group chat:** The website must provide a communication between the student profiled users and the instructor with a chat box where anyone can post their queries.

- 5) **Create course:** The website should give a additional feature for instructor profile where they can create a course and add their own references.
- 6) **Enrolled course and Completed courses:** The website should display the number of courses enrolled and courses completed and should also be able to give list of courses he has enrolled and completed.
- 7) **Wish list:** The website should contain a wish list for student where it has the list of courses he wants to enrol in future.
- 8) **Account management:** User should be able to change is privacy settings that is username, password, or email etc with proper verification techniques.
- 9) **Feedback and rating:** user should be able to post his honest feeling on the courses he enrolled in the form of feedback and rating.
- 10) **Q and A session:** And user should get a chance to clear his queries with a live chat but not only through group chat

3) Design

User Schema

```
▶ {
  _id: ObjectId('6401ba55854047da0c79d94e'),
  name: "Velagana Nataraj Gowd",
  username: "NatarajGowd-Velagana",
  collegename: "Nitap",
  YearOfPassOut: "2024",
  emailid: "420250@student.nitandhra.ac.in",
  phonenumber: "7032439407",
  password: "Nataraj@2002",
  cnfpassword: "Nataraj@2002",
  __v: 0
}
```

Overall Schema

